Internation Discation No PCT/US2004/020491

IPC 7 A61K39/118 A61K39/40							
According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS S	SEARCHED cumentation searched (classification system followed by classific	ation symbols)					
IPC 7 A61K							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched .							
•							
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)							
EPO-Int	ternal, BIOSIS, WPI Data, PAJ						
C. DOCUME	NTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.				
	WO 03/049762 A (CHIRON SPA; GRA	ANDI GUIDO.	1,3-22				
Х	RATTI, GIULIO; CHIRON SRL)	ANDI, GOIDO,					
	19 June 2003 (2003-06-19)						
	page 1, last line; examples 1-6,9,10,12,16,32						
	page 7, line 29						
		CUL AMVDT A I	1,3-22				
A	BRUNHAM R C: "PROSPECTS FOR A VACCINE"	CHLAMIDIAL	1,5 2.2				
	PROGRAM AND ABSTRACTS OF THE INTERSCIENCE						
	CONFERENCE ON ANTIMICROBIAL AG	ENIS AND					
	CHEMOTHERAPY, XX, XX, vol. 42, 27 September 2002 (20	02-09-27),					
	page 470, XP008042337						
	the whole document						
		-/					
1							
	Transition the continuation of boy C	Y Patent family members are listed	in annex.				
X Furt	ther documents are listed in the continuation of box C.						
	ategories of cited documents:	"T" later document published after the Int or priority date and not in confilct with	the application but				
"A" document defining the general state of the art which is not cited to understand the principle or theory underlying the invention							
"E" earlier	document but published on or after the international date	cannot be considered novel of canno	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to				
"L" docum	ent which may throw doubts on priority claim(s) or a scited to establish the publication date of another	"Y" document of particular relevance; the	involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention				
citation	on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or	cannot be considered to involve an independent is combined with one or m	nventive step when the lore other such docu-				
other	means nent published prior to the international filing date but	ments, such combination being obvious in the art.					
later	than the priority date claimed	· · · · · · · · · · · · · · · · · · ·	"&" document member of the same patent family  Date of mailing of the international search report				
Date of the	e actual completion of the International search	Date of framing of the international se					
	28 February 2005	<b>U</b> U. U I. I	, UUJ				
	mailing address of the ISA	Authorized officer					
, and and	European Patent Office, P.B. 5818 Patentlaan 2						
}	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Mata Vicente, T.					

Internation application No. PCT/US2004/020491

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)					
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:					
Although claims 18-21 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.					
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:					
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
Box III Observations where unity of Invention is lacking (Continuation of item 3 of first sheet)					
This International Searching Authority found multiple inventions in this international application, as follows:					
The first the first term of th					
see additional sheet					
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.					
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.					
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:					
A. No required additional search fees were timely pald by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  (1, 3-22) completely					
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.					

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: (1, 3-22)-completely

Immunogenic composition comprising the combination of Chlamydia trachomatis antigens PepA+LcrE. Vaccines comprising said immunogenic composition. Use thereof in methods of treatment/diagnosis/prevention of C. trachomatis infection.

Inventions 2-25: (1, 3-22) - partially

Idem as subject 1, but restricted to each one of the combinations mentioned in Claim 1 except PepA+LcrE and PepA+LcrE+ArtJ+DnaK+CT398.

Invention 26: 2- completely; (1, 3-22) - partially

Idem as subject 1 but restricted to the specific combination PepA+LcrE+ArtJ+DnaK+CT398.

Invention 27: (8-22) - partially

Idem as subject 1 but restricted to the specific combination OmpH-like+L7/L12.

Invention 28: (8-22) - partially

Idem as subject 1 but restricted to the specific combination OmcA+AtoS.

Inventions 29-8152: (8-22) - partially

Idem as subject 1 but restricted to each one of the combinations mentioned in Claim 8 which are not covered by inventions 1-28.

Invention 8179: (23-25) - completely

Immunogenic composition comprising an oligonucleotide containg a CpG motif, a mineral salt and an antigen associated with a sexually-transmitted disease.

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C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EKO F O ET AL: "Recombinant Vibrio cholerae ghosts as a delivery vehicle for vaccinating against Chlamydia trachomatis" VACCINE, BUTTERWORTH SCIENTIFIC. GUILDFORD, GB, vol. 21, no. 15, 2 April 2003 (2003-04-02), pages 1694-1703, XP004413559 ISSN: 0264-410X page 1701, right-hand column, paragraph 2	1,3-22
A	SANCHEZ-CAMPILLO M ET AL: "IDENTIFICATION OF IMMUNOREACTIVE PROTEINS OF CHLAMYDIA TRACHOMATIS BY WESTERN BLOT ANALYSIS OF A TWO-DIMENSIONAL ELECTROPHORESIS MAP WITH PATIENT SERA" ELECTROPHORESIS, WEINHEIM, DE, vol. 20, no. 11, August 1999 (1999-08), pages 2269-2279, XP000900035 ISSN: 0173-0835 abstract	1,3-22
	MONTIGIANI S ET AL: "GENOMIC APPROACH FOR ANALYSIS OF SURFACE PROTEINS IN CHLAMYDIA PNEUMONIAE" INFECTION AND IMMUNITY, AMERICAN SOCIETY FOR MICROBIOLOGY. WASHINGTON, US, vol. 70, no. 1, January 2002 (2002-01), pages 368-379, XP009032240 ISSN: 0019-9567 cited in the application page 375, right-hand column table 1 page 377, right-hand column, paragraph 3	1,3-22

Inforr. on patent family members

International lication No PCT/US2004/020491

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 03049762 A	19-06-2003	AU 2002366592 A1 CA 2469620 A1 EP 1463520 A2 WO 03049762 A2 JP 2005511076 T US 2005106162 A1	23-06-2003 19-06-2003 06-10-2004 19-06-2003 28-04-2005 19-05-2005